Amendments to the Specification

In the Specification, at page 2 of 36, please replace paragraph 10, beginning at line 6 and ending

at line 16 with the following rewritten paragraph:

Genetic information of all life forms is encoded by the four basic nucleotides, denoted by

symbols A, G, C, and T. The make up of all life forms is determined by the sequence of these

nucleotides. DNA is the molecule that encodes this sequence of nucleotides. The DNA

molecule usually contains a large number of genes. Each gene provides biochemical instructions

on how to construct a particular protein. The one-to-one nature of one gene creating one protein

has been recently changed. In some cases multiple genes are required to create a single protein

and commonly multiple proteins can be produced through alternative splicing and post-

transcriptional modification of a single gene. An example of a genome is depicted in FIG. 1,

wherein the genes 103, 105 are defined as segments of nucleotide sequence on the DNA genome

101. As depicted in FIG. 1, the letter "N" represents any of the four DNA nucleotides: "A,"

"C," "G," or "T."

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